

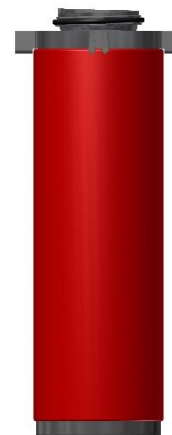
# FILTER ELEMENT – OIR F

(Particulate, Coalescing, Oil vapour removal)

## DESCRIPTION

We have designed OIR F new filter elements for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air <sup>(1)</sup>.

OIR F filter elements will fit into Ingersoll Rand filter housings.



## APPLICATIONS <sup>(2)</sup>

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

<sup>(1)</sup> For any other technical gas please contact us or your local dealer

<sup>(2)</sup> OIR F filter element can be used in variety of applications. For applications not listed please contact us or your local dealer.

## FILTER ELEMENT RATING ACCORDING TO ISO8573-1

	Solid particles	Water	Oil
IG/R	Class 3	-	-
IH/S	Class 1	-	Class 1
IA/A	Class 1	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

## TECHNICAL SPECIFICATION

Filtration grade name	IG/R <sup>(6)</sup>	IH/S <sup>(6)</sup>	IA/A <sup>(6)</sup>
<b>Operating temperature</b>	1,5 - 65 °C 35 - 149 °F		1,5 - 45 °C 35 - 113 °F
<b>Differential pressure (dry)</b>	20 mbar 0,290 psi	80 mbar 1,160 psi	60 mbar 0,870 psi
<b>Differential pressure (wet)</b>	40 mbar 0,580 psi	190 mbar 2,756 psi	/
<b>Particle Retention (nominal)</b>	99,9999 % (1 µm)	99,9999 % (0,01µm)	/
<b>Particle retention Rate ISO <sup>(3)</sup></b>	99,8 %	99,9994 %	/
<b>Residual oil Content <sup>(4)</sup></b>	/	< 0,01mg/m 3	<0,005mg/m3
<b>Capacity (ISO12500-2) <sup>(5)</sup></b>	/	/	20 min

<sup>(3)</sup> Tested according to ISO12500-3, 1bar(a), nominal flow,06050 IG/R, IH/S, MPPS-(0,3µm)

<sup>(4)</sup> Tested according to ISO12500-1, 06050 IH/S Oil aerosol viscosity 32mm<sup>2</sup>/s, inlet concentration 10mg/m<sup>3</sup>

<sup>(5)</sup> Tested according to ISO12500-2, 06050 IA/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

<sup>(6)</sup> Cross reference Omega Air – Ingersoll Rand filtration grades R=IG/R=IG, S=IH/S=IH, A=IA/A=IA

## FILTER CARTRIDGE NAMES

Filter cartridge names consist of cartridge size and filtration grade.

Example: “OIR FA30 IH/S.

**SIZES**

SIZES	DIMENSIONS [mm]	FITS INTO FILTER HOUSING
OIR F35	Ø=36; h=65	F35 I
OIR F71	Ø=55; h=88	F71 I
OIR F108	Ø=55; h=106	F108 I
OIR F144	Ø=72; h=127	F144 I
OIR F178	Ø=72; h=127	F178 I
OIR F212	Ø=72; h=127	F212 I
OIR F395	Ø=72; h=217	F395 I
OIR F424	Ø=72; h=217	F424 I
OIR F577	Ø=95; h=260	F577 I
OIR F791	Ø=95; h=280	F791 I
OIR F985	Ø=95; h=300	F985 I
OIR F1155	Ø=108; h=358	F1155 I
OIR F1529	Ø=108; h=458	F1529 I
OIR F1817	Ø=108; h=541	F1817 I
OIR F2378	Ø=108; h=700	F2378 I

Ø=Diameter; h=Height

**MATERIALS**

	IG/R	IH/S	IA/A
<b>Filter media</b>	Borosilicate micro fibers		Glass fiber, borosilicate microfibrres
<b>Drainage media</b>	Polyester based polyurethane		/
<b>Adsorption media</b>			Activated carbon granulate PES (Polyester)
<b>Support (inner-outer)</b>		Stainless steel 1.4301	
<b>Bonding</b>		Polyurethane	
<b>Endcaps</b>		PA6 with 30% glass fibers	
<b>Sealing</b>		NBR	

**CORRECTION FACTORS**

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>


**OPERATING PRESSURE**

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C <sub>OP</sub>	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

**MAINTENANCE**

Replace filter element grade IG/R and IH/S at least once per year or when pressure drop reaches 350mbar. Replace filter element grade IA/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285</p>	
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